

Title (en)  
CONJUGATES FOR PROTECTING AGAINST DIPHTHERIA AND/OR TETANUS

Title (de)  
KONJUGATE ZUM SCHUTZ GEGEN DIPHTERIE UND/ODER TETANUS

Title (fr)  
CONJUGUÉS DE PROTECTION CONTRE LA DIPHTÉRIE ET/OU LE TÉTANOS

Publication  
**EP 2934574 A1 20151028 (EN)**

Application  
**EP 13811876 A 20131216**

Priority  
• US 201261738958 P 20121218  
• EP 2013076781 W 20131216

Abstract (en)  
[origin: WO2014095771A1] Saccharide conjugate vaccines which use diphtheria toxoid or tetanus toxoid as a carrier protein can confer protection against lethal challenge by diphtheria toxin or tetanus toxin. Thus, in addition to protecting against the bacteria whose saccharides have been attached to the carrier, such conjugate vaccines can also be used to protect against diphtheria and tetanus, so the diphtheria toxoid and tetanus toxoid components of current complex combination vaccines may be superfluous. Therefore the antigenic complexity of these vaccines can be reduced without reducing their breadth of protection, and removing these superfluous components creates space in the vaccine for adding immunogens for protecting against further pathogens. The same effect is not seen with a CRM197 carrier, but this observation makes this carrier more attractive for conjugate vaccines which are given concomitantly with infant combination vaccines that contain Dt and Tt.

IPC 8 full level  
**A61K 39/00** (2006.01); **C07H 1/00** (2006.01)

CPC (source: EP US)  
**A61K 39/05** (2013.01 - EP US); **A61K 39/08** (2013.01 - EP US); **A61K 39/092** (2013.01 - EP US); **A61K 39/095** (2013.01 - EP US); **A61K 39/099** (2013.01 - US); **A61K 39/102** (2013.01 - US); **A61K 39/13** (2013.01 - US); **A61K 39/292** (2013.01 - US); **C12N 7/00** (2013.01 - US); **A61K 2039/55** (2013.01 - US); **A61K 2039/6037** (2013.01 - EP US); **A61K 2039/70** (2013.01 - EP US); **C12N 2730/10134** (2013.01 - US); **C12N 2770/32634** (2013.01 - US); **Y02A 50/30** (2017.12 - EP)

Citation (search report)  
See references of WO 2014095771A1

Citation (examination)  
• WO 2006075170 A1 20060720 - CHIRON SRL [IT], et al  
• BEUVERY E C ET AL: "Immunological evaluation of meningococcal group C polysaccharide-tetanus toxoid conjugate in mice", INFECTION AND IMMUNITY, vol. 41, no. 2, 1 August 1983 (1983-08-01), pages 609 - 617, XP002575270, ISSN: 0019-9567

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2014095771 A1 20140626**; BR 112015014250 A2 20170711; CA 2894260 A1 20140626; CN 105007935 A 20151028; EP 2934574 A1 20151028; JP 2016502994 A 20160201; US 2015320852 A1 20151112

DOCDB simple family (application)  
**EP 2013076781 W 20131216**; BR 112015014250 A 20131216; CA 2894260 A 20131216; CN 201380073242 A 20131216; EP 13811876 A 20131216; JP 2015547069 A 20131216; US 201314652234 A 20131216